

# Vincenzo Casulli

## List of Publications by Year in descending order

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42  
papers

2,998  
citations

331670

21  
h-index

315739

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-implicit finite difference methods for three-dimensional shallow water flow. International Journal for Numerical Methods in Fluids, 1992, 15, 629-648.	1.6	492
2	Semi-implicit finite difference methods for the two-dimensional shallow water equations. Journal of Computational Physics, 1990, 86, 56-74.	3.8	344
3	An unstructured grid, three-dimensional model based on the shallow water equations. International Journal for Numerical Methods in Fluids, 2000, 32, 331-348.	1.6	301
4	A semi-implicit finite difference method for non-hydrostatic, free-surface flows. International Journal for Numerical Methods in Fluids, 1999, 30, 425-440.	1.6	273
5	Numerical Simulation of 3D Quasi-Hydrostatic, Free-Surface Flows. Journal of Hydraulic Engineering, 1998, 124, 678-686.	1.5	207
6	Tidal, Residual, Intertidal Mudflat (TRIM) Model and its Applications to San Francisco Bay, California. Estuarine, Coastal and Shelf Science, 1993, 36, 235-280.	2.1	185
7	A high-resolution wetting and drying algorithm for free-surface hydrodynamics. International Journal for Numerical Methods in Fluids, 2009, 60, 391-408.	1.6	161
8	Eulerian-Lagrangian Solution of the Convection-Dispersion Equation in Natural Coordinates. Water Resources Research, 1984, 20, 944-952.	4.2	102
9	High resolution methods for multidimensional advection-diffusion problems in free-surface hydrodynamics. Ocean Modelling, 2005, 10, 137-151.	2.4	95
10	On Lagrangian residual currents with applications in south San Francisco Bay, California. Water Resources Research, 1982, 18, 1652-1662.	4.2	91
11	Semi-implicit subgrid modelling of three-dimensional free-surface flows. International Journal for Numerical Methods in Fluids, 2011, 67, 441-449.	1.6	87
12	A Nested Newton-Type Algorithm for Finite Volume Methods Solving Richards' Equation in Mixed Form. SIAM Journal of Scientific Computing, 2010, 32, 2255-2273.	2.8	75
13	Iterative Solution of Piecewise Linear Systems. SIAM Journal of Scientific Computing, 2008, 30, 463-472.	2.8	73
14	A staggered semi-implicit spectral discontinuous Galerkin scheme for the shallow water equations. Applied Mathematics and Computation, 2013, 219, 8057-8077.	2.2	55
15	Iterative Solution of Piecewise Linear Systems and Applications to Flows in Porous Media. SIAM Journal of Scientific Computing, 2009, 31, 1858-1873.	2.8	51
16	A semi-implicit numerical method for the free-surface Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 2014, 74, 605-622.	1.6	46
17	A conservative, weakly nonlinear semi-implicit finite volume scheme for the compressible Navier-Stokes equations with general equation of state. Applied Mathematics and Computation, 2016, 272, 479-497.	2.2	43
18	Iterative solutions of mildly nonlinear systems. Journal of Computational and Applied Mathematics, 2012, 236, 3937-3947.	2.0	42

#	ARTICLE	IF	CITATIONS
19	Semi-implicit numerical modeling of axially symmetric flows in compliant arterial systems. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 257-272.	2.1	35
20	A semi-implicit method for vertical transport in multidimensional models. International Journal for Numerical Methods in Fluids, 1998, 28, 157-186.	1.6	27
21	A semi-implicit numerical model for urban drainage systems. International Journal for Numerical Methods in Fluids, 2013, 73, 600-614.	1.6	26
22	A conservative semi-implicit method for coupled surface-subsurface flows in regional scale. International Journal for Numerical Methods in Fluids, 2015, 79, 199-214.	1.6	20
23	Numerical simulation of three-dimensional free surface flow in isopycnal co-ordinates. International Journal for Numerical Methods in Fluids, 1997, 25, 645-658.	1.6	19
24	Eulerian-Lagrangian methods for the Navier-Stokes equations at high Reynolds number. International Journal for Numerical Methods in Fluids, 1988, 8, 1349-1360.	1.6	18
25	An efficient semi-implicit method for three-dimensional non-hydrostatic flows in compliant arterial vessels. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1170-1198.	2.1	18
26	A coupled surface-subsurface model for hydrostatic flows under saturated and variably saturated conditions. International Journal for Numerical Methods in Fluids, 2017, 85, 449-464.	1.6	15
27	Computational grid, subgrid, and pixels. International Journal for Numerical Methods in Fluids, 2019, 90, 140-155.	1.6	15
28	Comparing analytical and numerical solution of nonlinear two and three-dimensional hydrostatic flows. International Journal for Numerical Methods in Fluids, 2007, 53, 1049-1062.	1.6	14
29	Stability analysis of Eulerian-Lagrangian methods for the one-dimensional shallow-water equations. Applied Mathematical Modelling, 1990, 14, 122-131.	4.2	12
30	High resolution methods for scalar transport problems in compliant systems of arteries. Applied Numerical Mathematics, 2013, 74, 62-82.	2.1	11
31	The convergence order for iterative multipoint procedures. Calcolo, 1977, 14, 25-44.	1.1	9
32	Evaluation of the UnTRIM Model for 3-D Tidal Circulation. , 2002, , 628.		8
33	Particle modelling of an elastic arch. Applied Mathematical Modelling, 1985, 9, 215-219.	4.2	6
34	Modeling a Three-dimensional River Plume over Continental Shelf Using a 3D Unstructured Grid Model. , 2004, , 1027.		6
35	Numerical simulation of free-surface thermally influenced flows for nonhomogeneous fluids. Applied Mathematics and Computation, 1981, 8, 261-280.	2.2	4
36	Dispersion in tidally-averaged transport equation. Coastal and Estuarine Studies, 1992, , 409-428.	0.4	4

#	ARTICLE	IF	CITATIONS
37	A semi-implicit finite difference method for non-hydrostatic, free-surface flows. International Journal for Numerical Methods in Fluids, 1999, 30, 425-440.	1.6	3
38	Sui procedimenti iterativi composti. Calcolo, 1976, 13, 403-420.	1.1	2
39	Simulation of a planar combustion wave. Mathematics and Computers in Simulation, 1992, 34, 365-373.	4.4	2
40	Computational complexity for a class of multipoint iterative procedures without or with internal memory. Calcolo, 1977, 14, 225-235.	1.1	1
41	Multipoint iterative parallel methods for solving equations. Calcolo, 1978, 15, 147-160.	1.1	0
42	A review on advanced numerical methods for free-surface hydrodynamics. Annali Dell'Universita Di Ferrara, 0, , .	1.3	0